Release notes for ENDF/B Development n-053_I_135 evaluation



April 26, 2017

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=5349,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=5349, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 112 TO 142

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=5349, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=5349, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 112

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5349, MF=2, MT=151 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 144

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5349, MF=3, MT=1 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 150

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5349, MF=3, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 207

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5349, MF=3, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 264

6. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=5349,\ MF=3,\ MT=16\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 297

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5349, MF=3, MT=17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 17 SECTION 3/ 17 NOT IN DIRECTORY

RECORD NUMBER 318

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 3, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 22 SECTION 3/ 22 NOT IN DIRECTORY

RECORD NUMBER 330

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5349, MF=3, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 28 SECTION 3/ 28 NOT IN DIRECTORY

RECORD NUMBER 345

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 3, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 51 SECTION 3/ 51 NOT IN DIRECTORY

RECORD NUMBER 361

11. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 3, MT = 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 52 SECTION 3/ 52 NOT IN DIRECTORY

RECORD NUMBER 394

12. Missing a section in directory so your directory is messed up. This error will break ev-

erything else MAT=5349, MF=3, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT= 91 SECTION 3/ 91 NOT IN DIRECTORY

RECORD NUMBER 427

13. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 3, MT = 102 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT=102 SECTION 3/102 NOT IN DIRECTORY

RECORD NUMBER 460

14. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 3, MT = 103 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT=103 SECTION 3/103 NOT IN DIRECTORY

RECORD NUMBER 517

15. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 3, MT = 104 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT=104 SECTION 3/104 NOT IN DIRECTORY

RECORD NUMBER 538

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 3, MT = 105 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT=105 SECTION 3/105 NOT IN DIRECTORY

RECORD NUMBER 556

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 3, MT = 107 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 3, MT=107 SECTION 3/107 NOT IN DIRECTORY

RECORD NUMBER 571

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 4, MT = 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 4, MT= 2 SECTION 4/ 2 NOT IN DIRECTORY

RECORD NUMBER 595

19. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 4, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 4, MT= 16 SECTION 4/ 16 NOT IN DIRECTORY

RECORD NUMBER 1123

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5349, MF = 4, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 4, MT= 17

SECTION 4/ 17 NOT IN DIRECTORY

RECORD NUMBER 1154

21. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 4, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 4, MT= 22 SECTION 4/ 22 NOT IN DIRECTORY

RECORD NUMBER 1173

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5349, MF = 4, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 4, MT= 28 SECTION 4/ 28 NOT IN DIRECTORY

RECORD NUMBER 1198

23. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 4, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 4, MT= 51 SECTION 4/51 NOT IN DIRECTORY

RECORD NUMBER 1225

24. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5349, MF = 4, MT = 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 4, MT= 52 SECTION 4/52 NOT IN DIRECTORY

RECORD NUMBER 1347

25. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5349, MF = 4, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 4, MT= 91 SECTION 4/ 91 NOT IN DIRECTORY

RECORD NUMBER 1464

26. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5349, MF = 5, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 5, MT= 16 SECTION 5/ 16 NOT IN DIRECTORY

RECORD NUMBER 1516

27. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5349, MF = 5, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 5, MT= 17 SECTION 5/ 17 NOT IN DIRECTORY

RECORD NUMBER

28. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5349, MF = 5, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 5, MT= 22 SECTION 5/ 22 NOT IN DIRECTORY

RECORD NUMBER 1716

29. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5349, MF = 5, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 5, MT= 28 SECTION 5/ 28 NOT IN DIRECTORY

RECORD NUMBER 1809

30. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5349, MF = 5, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5349, MF= 5, MT= 91 SECTION 5/ 91 NOT IN DIRECTORY

RECORD NUMBER 1912

- fudge-4.0 Warnings:
 - 1. Cross section does not match sum of linked reaction cross sections crossSectionSum label 0: total (Error # 0): CS Sum.

- fudge-4.0 Errors:
 - 1. Energy range of data set does not match cross section range reaction label 2: n + I135_e2 / Product: n / Distribution: / angularTwoBody XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (876810.1 -> 20000000.0) vs (876810.0 -> 20000000.0)

2. Energy range of data set does not match cross section range reaction label 3: $n + I135_c / Product$: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (876810.1 -> 20000000.0) vs (876810.0 -> 20000000.0)

3. Energy range of data set does not match cross section range reaction label 3: n + I135_c / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (876810.1 -> 20000000.0) vs (876810.0 -> 20000000.0)

4. Calculated and tabulated Q values disagree. reaction label 4: n[multiplicity:'2'] + I134 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8827676.413589478 eV vs -7.9026e6 eV!

5. Energy range of data set does not match cross section range reaction label 4: n[multiplicity:'2'] + I134 / Product: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7961701.0 -> 20000000.0) vs (7961700.0 -> 20000000.0)

6. Energy range of data set does not match cross section range reaction label 4: n[multiplicity:'2'] + I134 / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7961701.0 -> 20000000.0) vs (7961700.0 -> 20000000.0)

7. Calculated and tabulated Q values disagree.

reaction label 5: n[multiplicity:'3'] + I133 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15084884.96772766 eV vs -1.4075e7 eV!

8. Calculated and tabulated Q values disagree. reaction label 6: n + H1 + Te134 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9558329.473526001 eV vs -8.6795e6 eV!

9. Energy range of data set does not match cross section range reaction label 6: n + H1 + Te134 / Product: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (8744401.0 -> 20000000.0) vs (8744400.0 -> 20000000.0)

10. Energy range of data set does not match cross section range reaction label 6: n + H1 + Te134 / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (8744401.0 -> 20000000.0) vs (8744400.0 -> 20000000.0)

11. Calculated and tabulated Q values disagree.

reaction label 7: I136 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 2741762.339797974 eV vs 3.8003e6 eV!

12. Calculated and tabulated Q values disagree. reaction label 8: n + He4 + Sb131 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5265781.420974731 eV vs -4.2263e6 eV!

13. Calculated and tabulated Q values disagree. reaction label 9: H1 + Te135-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6218866.736114502 eV vs -5.1689e6 eV!

14. Calculated and tabulated Q values disagree. reaction label 10: H2 + Te134-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7333763.372589111 eV vs -6.455e6 eV!

15. Calculated and tabulated Q values disagree. reaction label 11: H3 + Te133_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8762739.346099854 eV vs -7.7297e6 eV!

16. Calculated and tabulated Q values disagree. reaction label 12: He4 + Sb132_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 491126.3379821777 eV vs 1.5553e6 eV!

- njoy2012 Warnings:
 - 1. Evaluation has no resonance parameters given unresr...calculation of unresolved resonance cross sections (0): No RR

---message from unresr---mat 5349 has no resonance parameters copy as is to nout

2. Evaluation has no resonance parameters given purr...probabalistic unresolved calculation (0): No RR

---message from purr---mat 5349 has no resonance parameters copy as is to nout

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16 only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17 only mf4/mf5 provided

- 5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)
 - group compute seig-suictured group-uveraged cross-sections (2). G1tOO1 11/conver (6

---message from conver---cannot do complete particle production for mt= 22 only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to good evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28 only mf4/mf5 provided

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groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91 only mf4/mf5 provided